

Application Serial No.: 09/617,460
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Attorney Docket No.: ARC9-2000-0116 US1

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

1 - 2. (Canceled)

3. (Currently amended) The system according to claim 14, A system for preventing automated crawler access to data from a network-based data source, comprising:
—a transcoding proxy that automatically prevents crawler access to the data source; and

wherein the transcoding proxy concurrently permits a browser to access the data source.

4. (Canceled) ~~The system according to claim 1, wherein the transcoding proxy utilizes a transcoding technique that dynamically changes a form structure.~~

5. (Currently amended) The system according to claim ~~[[1]]~~ 14, wherein the transcoding proxy utilizes a transcoding technique that dynamically changes a form content.

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6. (Currently amended) The system according to claim ~~[[2]]~~ 14, wherein the data retrieved from the data source include a variable with a name; and
wherein the transcoding proxy utilizes a transcoding technique that dynamically changes the name of the variable.

7. (Currently amended) The system according to claim ~~[[1]]~~ 14, wherein the data retrieved from the data source include a textual content; and
wherein the transcoding proxy utilizes a transcoding technique that dynamically changes the textual content into non-textual content.

8. (Currently amended) The system according to claim ~~[[1]]~~ 14, wherein the data retrieved from the data source includes a form containing a variable with a value;
wherein the transcoding proxy utilizes a transcoding technique that incorporates an executable application in the form; and
wherein when the executable application is implemented, it dynamically alter the value of the variable.

9. (Currently amended) The system according to claim ~~[[1]]~~ 14, wherein the data retrieved from the data source is collected in a page;
wherein the transcoding proxy utilizes a transcoding technique that incorporates an executable application in the page; and
wherein when the executable application is implemented, it dynamically generates the page and renders the data.

10 - 13. (Canceled)

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14. (Previously presented) A system for preventing automated crawler access to data from a network-based data source, comprising:

- a transcoding proxy for automatically permutating data retrieved from the data source, to render the data uninterpretable by the crawler, while allowing a browser to render data retrieved from the data source;

- wherein the transcoding proxy utilizes a transcoding technique that dynamically changes a form structure;

- wherein the transcoding technique changes the form structure by shifting the position of the data in the form;

- wherein the transcoding technique shifts the position of form data by inserting any one or more of: a character, a string of characters, a space, non-textual data, a blank row, a blank column, and/or an empty table; and

- wherein the transcoding technique shifts the position of form data by nesting the data in a table within a table.

15. (Previously presented) A system for preventing automated crawler access to data from a network-based data source, comprising:

- a transcoding proxy for automatically permutating data retrieved from the data source, to render the data uninterpretable by the crawler, while allowing a browser to render data retrieved from the data source;

- wherein the transcoding proxy utilizes a transcoding technique that dynamically changes a form content; and

- wherein the transcoding technique changes the form content by adding one or more content inserts that are substantially imperceptible to a browser user, in order to render selected terms in the page content difficult to be searched automatically by the crawler.

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16. (Original) The system according to claim 15, wherein the content inserts include any one or more of: a characters, a string of characters, non-textual data, and/or a string of images.

17. (Previously presented) The system according to claim 16, wherein the transcoding technique calculates a synthetic name from a variable name, and replaces the variable name with the synthetic name, in order to render selected terms difficult to be searched automatically by the crawler.

18. (Previously presented) The system according to claim 17, wherein the variable is contained in a data entry form;

wherein the data entry form further includes a session ID; and

wherein the transcoding technique recalculates the variable name from the synthetic name to enable the data to be rendered by the browser.

19. (Original) The system according to claim 7, wherein the transcoding technique replaces the textual content by a corresponding image, in order to render selected terms difficult to be searched automatically by the crawler.

20. (Original) The system according to claim 8, wherein the variable includes a label associated with the variable;

wherein the transcoding technique further transforms the label into a synthetic label; and

wherein the executable application recalculates the variable value in order to prevent a server from authenticating the crawler access to the data source.

21. (Original) The system according to claim 9, wherein the transcoding technique renders the data using an HTML code.

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22. (Canceled)

23. (Currently amended) A method for preventing automated crawler access to data from a network-based data source, comprising the steps of:
automatically permutating data retrieved from the data source, to prevent a crawler from automatically accessing the data source by rendering the data uninterpretable by the crawler, while allowing a browser to render data retrieved from the data source; and
~~concurrently permitting a browser from accessing the data source;~~
utilizing a transcoding technique that dynamically changes a form structure;
wherein the transcoding technique changes the form structure by shifting the position of the data in the form; and
wherein the transcoding technique shifts the position of form data by nesting the data in a table within a table.

24. (Original) The method according to claim 23, wherein the data contain any one or more of: a variable with a name, a textual content, or a value;
wherein the data are collected in one or more of: a form or a page; and
wherein automatically permuting data and preventing crawler access include using one or more of the following transcoding techniques:
a first transcoding technique that dynamically changes a form structure;
a second transcoding technique that dynamically changes a form content;
a third transcoding technique that dynamically changes the name of the variable;

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a fourth transcoding technique that dynamically changes the textual content into a non-textual content;

a fifth transcoding technique that incorporates an executable application in the form, and wherein when the executable application is implemented, it dynamically alter the value of the for variable; and/or

a sixth transcoding technique that incorporates an executable application in the page, and wherein when the executable application is implemented, it dynamically generates the page and renders the data.

25. (Previously presented) A system for preventing automated crawler access to data from a network-based data source, comprising:

a transcoding proxy for automatically permutating data retrieved from the data source, to render the data uninterpretable by the crawler, while allowing a browser to render data retrieved from the data source;

wherein the transcoding proxy utilizes a transcoding technique that dynamically changes a form structure;

wherein the transcoding technique changes the form structure by shifting the position of the data in the form; and

wherein the transcoding technique shifts the position of form data by nesting the data in a table within a table.

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26. (New) A computer program product including a plurality of executable instruction codes stored on a computer readable medium, for preventing automated crawler access to data from a network-based data source, comprising:

- a first set of instruction codes for automatically permutating data retrieved from the data source, to render the data uninterpretable by the crawler, while allowing a browser to render data retrieved from the data source;

- a second set of instruction codes for dynamically changing a form structure; wherein the second set of instruction codes changes the form structure by shifting the position of the data in the form; and

- wherein the second set of instruction codes shifts the position of form data by nesting the data in a table within a table.